

Lister Institute of, Chelsea Bridge Rd.S.W.1

Dear Josh,

This is just a hurried request for some information, which is possible in the literature, but if so I can't find it. I have been going over a paper of Clowes and Rowley which they have sent to the J G Microbiol, on the genetics of nor-leucine sensitivity in K12; they find the locus for *nor leucine* resistance to be closely linked with the Gal - and Arab- loci of W 677 and less so with some of the other sugar markers of that strain. As a by - product of their crosses they also got linkage data for the Gal and Arab loci and the nutritional markers, and these of course do not agree with the data for the same sugars in W 945 given by Cavalli and you in the F factor paper; they have ascertained from C that the Gal loci concerned are known to be non -allelic, Presumably the Arab loci concerned are also non-allelic. They have explained this in a rather laboured way in their paper; I have suggested that it would make it much clearer if they could give the correct subscript numbers to the loci. *of the 2 strains mentioned* However I can't find what they should be. W 946 is in E's Lac paper as Gal 2 ; is this the same as W945? I can't find W677's marker's listed. *Can't find Arab. loci mentioned anywhere?* I told them that, as they were both presumably your strains originally ( since they have W numbers ), the best thing would be ask you for the official locus numbers which you have assigned , and I offered to write and ask you . Is Gal4 the only one near lambda? If the Gal- of W677 is near Gal4 the norleucine character might be useful in E's experiments.

Nothing new here . I have just given a broadcast on Pneumo transformation in a programme they have called Science survey ; I said firmly that DNA molecules were genes( no time to be guarded) and shall now be interested to see if any real geneticists write in to object. I missed the most interesting part of the actual broadcast (they recorded me the day before) which was

than is avoidable I mean) that I strongly urged them to get this cleared up, & so feel obligated to help in doing so. My apologies in advance if the information is in your lab paper that they accidentally began announcing it 7 minutes early, in the middle of of some music.

Fla - locus of SW966 is definitely H1 linked; we still need one more reaction to go to say if it is between ~~Fla~~ of 553 and H1, or on the other side of H1, beyond SL28<sup>1</sup>4 Fla - locus.

Packet of reprints from you has just come in, for which many thanks.

Can't think of any more news. I hope someone is going to refute Linderqvist's claim of specifically induced Gal mutations: as far as I can see all his experiments are non-conclusive, but one has to know something about the subject to see this, so I expect it will cause a lot of confusion for a long time. My regards to all in lab. If you are not too violently busy I would be glad if you could let me know about the Gal & Arab loci ~~more or less at once~~. It seems to me such a pity to have confusion in the literature (more

in biochem, which I have not available here at the moment. You have

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